



Vehicle Technologies Program

North American PHEV Demonstration

Fleet Summary Report - Hymotion Prius (Kvaser datalogger)

Number of vehicles: 34

Reporting Period: Jan - Jun 2008

Date range of data received:

1/1/2008 to 6/30/2008

Number of days the vehicles were driven: 182

All Trips Combined

Overall gasoline fuel economy (mpg)	45
Total number of trips	10931
Total distance traveled (mi)	94128

Trips in Charge Depleting (CD) mode *

Gasoline fuel economy (mpg)	61
Number of trips	5511
Percent of trips city / highway	87.20% / 12.80%
Distance traveled (mi)	26097
Percent of total distance traveled	27.73%

Trips in combined Charge Depleting and Charge Sustaining (CD/CS) modes **

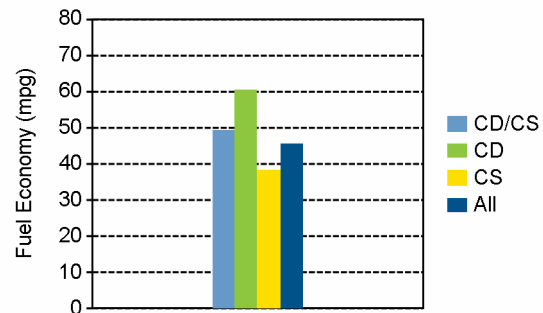
Gasoline fuel economy (mpg)	49
Number of trips	781
Percent of trips city / highway	44.60% / 55.40%
Distance traveled (mi)	20157
Percent of total distance traveled	21.41%

Trips in Charge Sustaining (CS) mode ***

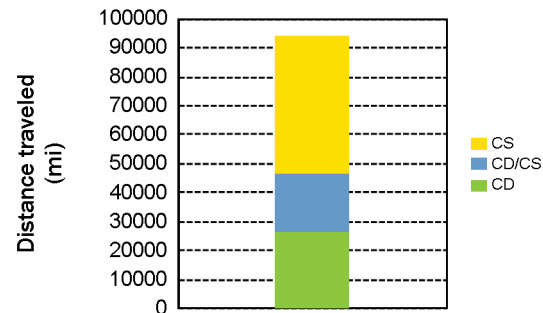
Gasoline fuel economy (mpg)	39
Number of trips	4639
Percent of trips city / highway	76.70% / 23.30%
Distance traveled (mi)	47874
Percent of total distance traveled	50.86%

Number of trips when the plug-in battery pack was turned off^	756
Distance traveled with plug-in battery pack turned off (mi)^	10434

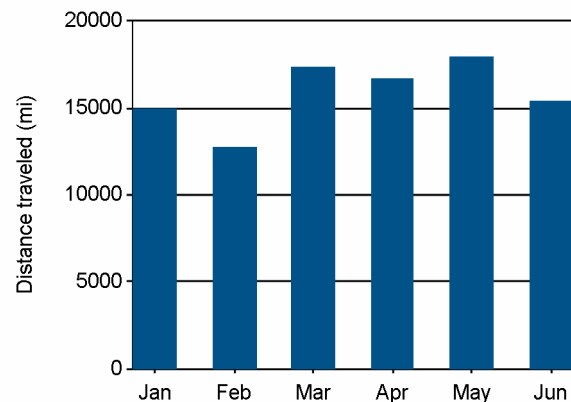
Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type



Miles Logged by Month This Year



* Trips when the plug-in battery pack charge is depleted to propel the vehicle throughout entire trip

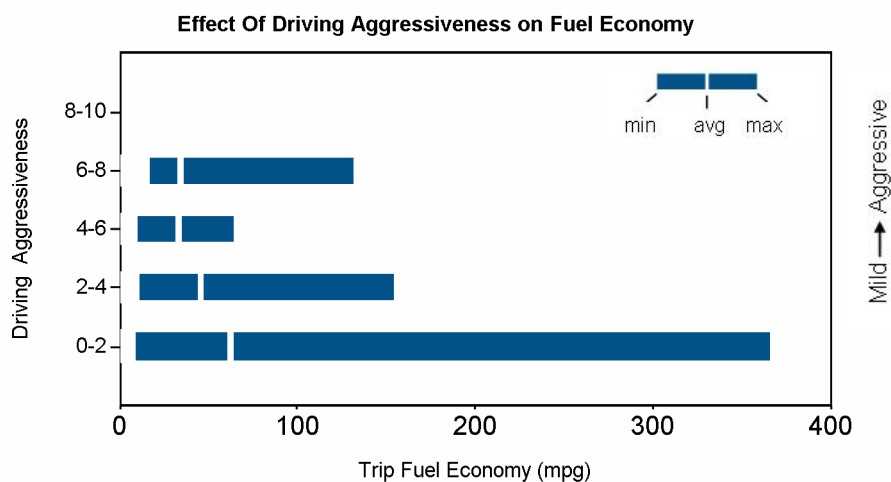
** Trips when the plug-in battery pack is depleted to propel the vehicle for a portion of the trip, but is fully depleted prior to the end of the trip

*** Trips when the plug-in battery pack is not used to propel the vehicle - either the plug-in battery is fully depleted before the beginning of the trip, or the plug-in battery pack is turned off

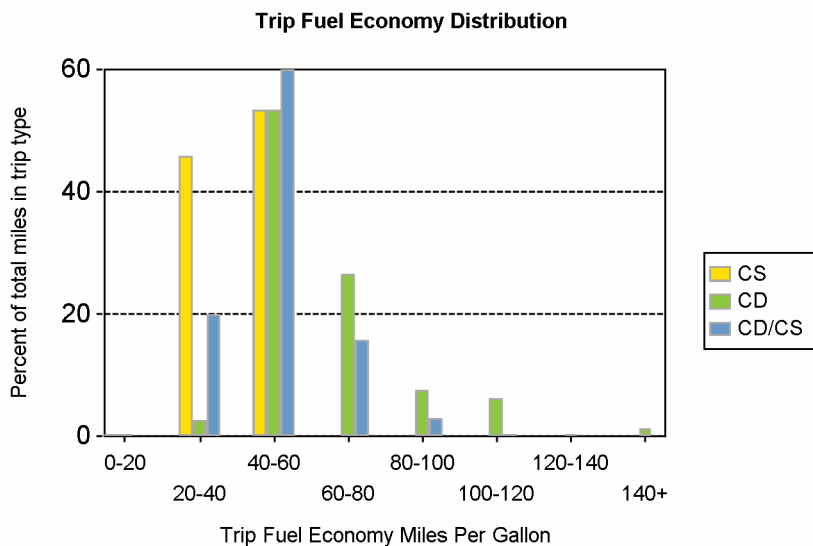
^ "Number of trips with plug-in battery pack turned off" is a subset of number of trips in combined CD/CS and CS mode

^^ "Distance traveled with plug-in battery pack turned off" is a subset of distance traveled in combined CD/CD and CS modes

Trips in Charge Depleting (CD) mode			City	Highway
Gasoline fuel economy (mpg)			60	62
Percent of miles in electric-only mode			32.00%	8.00%
Average trip aggressiveness (on scale 0 - 10)			1.8	1.9
Average trip distance (mi)			3.2	14.9
Trips in combined Charge Depleting and Charge Sustaining (CD/CS) modes				
Gasoline fuel economy (mpg)			51	49
Percent of miles in electric-only mode			26.00%	5.00%
Average trip aggressiveness (on scale 0 - 10)			1.8	1.7
Average trip distance (mi)			8.8	39.1
Trips in Charge Sustaining (CS) mode				
Gasoline fuel economy (mpg)			34	40
Percent of miles in electric-only mode			19.00%	4.00%
Average trip aggressiveness (on scale 0 - 10)			1.8	1.6
Average trip distance (mi)			3.4	32.9



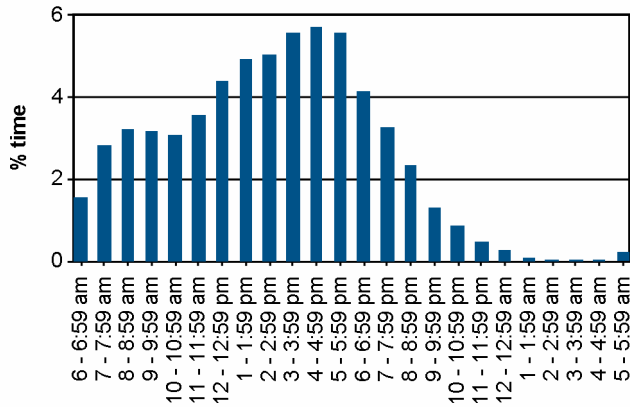
Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.



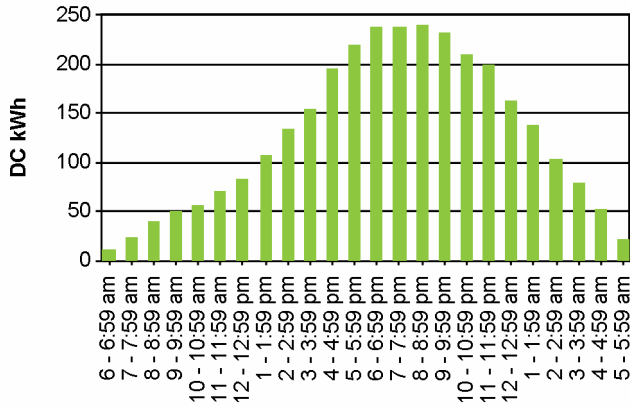
Plug-in charging

Average Number of Charging Events per vehicle per month when driven	15
Average number of charging events per vehicle per day when vehicle driven	0.5
Average distance between charging events	41.6
Average number of trips between charging events	4.8
Average duration of charging event (hr)	2.6
Average energy per charging event (DC kWh)	1.9
Average charging energy per vehicle per month (DC kWh)	31.0

Time of Day When Driving



Time of Day When Charging



Time at the Start of Charging Events

